

preface

10 million people get sick and more than 500,000 people die---The number of patients with new coronavirus pneumonia will exceed 100 million in the world, and the prevention and control alarm will sound again

According to a report by Johns Hopkins University in the United States, there have been more than 10 million cases of new coronavirus infections worldwide, and more than 500,000 deaths.

The World Health Organization said that the daily new cases set a new record on Sunday, reaching 189,000. Brazil has the most new cases, with 47,000 new cases in the past 24 hours.

Many health experts say that the actual number of global infection cases may far exceed published figures, because some countries may underreport the relevant data.

Over 10.11 million, with a cumulative death of over 500,000. According to Reuters data, 1 person dies of a disease associated with the new coronavirus every 18 seconds.

A total of more than 2.5 million people have been diagnosed with the virus in the United States, the most in the world. Brazil is the country with the second highest number of new coronavirus cases in the world, with 1.13 million people diagnosed with infection and 57,000 deaths. Some researchers say that by October this year, the death toll of the new coronavirus in Latin America may exceed 380,000.

(The relevant chart materials in the book are quoted from related websites or network screenshots, Wiki, Who, Cell, Lancet, Encyclopedia, etc.)

Reuters calculated based on the average data from June 1 to 27, more than 4,700 people died of diseases related to the new coronavirus every 24 hours, that is, 196 people died every hour, or every 18 seconds. 1 person died.

The New Corona virus nuclear bomb explosion, if countries do not take more effective and decisive effective prevention and control measures, the virus will be unscrupulous, from 10 million to continue to climb to a new height, will reach a new peak of 50 million-100 million people, died The number of people reaches one million or more, which seriously threatens the life, health and safety of 8 billion people worldwide. Viruses seriously threaten the living environment of human beings, destroying human beings, destroying the economy, and causing more fearful and terrible consequences. If the epidemic continues to spread and expand, the consequences Unbearable. Countries including invisible patients, invisible transmission, or resurgence of death, the situation is more dangerous, it is bound to directly affect the survival of mankind. Governments and people of all countries must attach great importance and be vigilant, otherwise, the consequences will be unimaginable. Different countries have different national conditions, restrictions on medical resources, differences in economic environment, cultural systems and other reasons. They need to be treated differently, without dispute or blame. The top priority is to strictly prevent and control and treat, minimize the spread, and maximize the treatment and rescue of the patient. If you fail to make a decision, indecision, the consequences are terrible and unimaginable. Vaccine development takes time and must not be delayed, making a big mistake. Global patients include severe patients, and a considerable number of invisible patients, asymptomatic patients, conservative estimates of new patients, at least one million or more. This is not alarmist, indeed, the statistics of WHO, Hopps University, etc. do not include this part of patients and patients. The number of outbreaks in the United States, Brazil, India, Russia, and other countries is partly spreading infections, and the other part includes invisible patients, asymptomatic infections, and newly occurred patients with virus conversion. The number is difficult to count accurately. The epidemic situation has expanded and worsened due to various factors. Of course, prevention and control measures, medical measures, etc., including resumption of work, school, and market are too early, and prevention and control measures are missing. The new shows that the number of young patients is increasing. This shows that the harmful spread of viruses cannot be underestimated. The continuous development of the global plague requires effective measures to face it.

1.

With the global epidemic of the New Crown epidemic, people in the British scientific community and others have successively put forward the idea of "group immunity". The so-called "group immunity" refers to the large-scale infection of an infectious disease by a biological group. After recovery, the body will automatically generate immunity to the infectious disease, thereby ensuring that this infectious disease will not be outbreak in the future.

“COVID-19 migrant ‘crisis within a crisis’

Tens of millions of migrant workers, forced to return home after losing their jobs due to the COVID-19 lockdown, face unemployment and poverty in their home countries, warned the ILO. Millions of migrant workers may be required to return home where labour markets, are now further weakened by the additional strain of high levels of unemployment and serious business disruptions. In addition, their families will suffer from the loss of the remittances normally sent to them.” (un.org Network screenshot))

Population genetics refers to the genetic composition of a population, ie the frequency of genes and genotypes in this population. For example, the population of pure line breeds is homogenous, and individuals are homozygous; while the population of open pollination group varieties is heterogeneous, and individuals are heterozygous. Studying the genetic composition of populations in crop breeding can help decision-making in breeding programs.

In terms of cultivation, the individual group composition of the crops planted on the same field is antagonized. This individual group may be composed of mixed crops, intercropping or single species of several crops. Studying the space occupied by each individual in the individual group and the composition of its phenotype and the dynamic coordination between individuals will help guide the cultivation of high-yield crops. In the face of group immunization, if the virus undergoes gene mutation and the sequence and structure of the protein change, so that people who were originally immune cannot recognize these changed viruses, then group immunization will be ineffective. There are two types of viruses—DNA viruses and RNA viruses. DNA viruses are more stable and less prone to mutation, while RNA viruses are unstable and prone to mutation. This new coronavirus is an RNA virus, which has a potential high risk of mutation and should be highly concerned.

The viral genome sequence data of the new coronavirus is very important for the treatment and prevention of the new coronavirus, and the development of vaccines and drugs is very important. Virus strains, Viral genome sequence data, etiology, pathology, molecular biology, quantum chemistry, pharmacology, etc. are all important scientific data.

The Chinese Center for Disease Control and Prevention has officially released the new coronavirus epidemic situation and viral genome sequence data in June 2020 in Beijing through the "New Coronavirus National Science and Technology Resource Service System". Mainly includes genomic sequence data of confirmed cases in Beijing (NMDC60013902-01, NMDC60013903-02) and genomic sequence data of environmental samples (NMDC60013903-03), these three samples were collected on June 11, 2020, as a recent virus sample outbreak in Beijing. At the same time, the Chinese Center for Disease Control and Prevention also submitted the new crown epidemic situation and viral genome sequence data to the World Health Organization and the Global Influenza Data Initiative (GISAID) to share data globally.

(Network screenshot

Scientific research, factual speaking, data speaking, empirical speaking. Otherwise, it will violate scientific truth. Network materials, network pictures, network screenshots are all historical memories and records.)

The 2019 New Coronavirus Resource Library contains meta information of the 2019 New Coronavirus (2019-nCoV) virus strains released from the NCBI's GenBank database and GISAID database. .

<http://virological.org/>) published the genome sequence of this virus. Soon after, the China CDC similarly published the SARS-CoV-2 genome sequence (and related epidemiological data) on the publicly accessible GISAID database (<https://www.gisaid.org/>). Importantly, the release of SARS-CoV-2 genomic sequence data has facilitated the rapid development of diagnostic tests and infectious clones. The race to develop effective vaccines and antiviral drugs is in progress, and clinical trials for antiviral drugs are gradually in progress. (Relevant genomic sequence data are quoted from relevant databases, medical journals such as "Cell", attached drawings, etc.),
Genomic sequence data

In the 1930s, avian infectious bronchitis virus (IBV) was found in the respiratory tract of chickens. Subsequently, viruses similar in structure to IBV were also found in human nasal lavage fluid and other animals. Because the surface of the virus has crown-shaped fibrillar proteins, it is named coronavirus.

Avian infectious bronchitis virus, as the name implies, infects chickens through the respiratory tract, causing respiratory diseases in chickens. However, different IBV strains may attack the kidneys of chickens and some will attack the fallopian tubes. IBV was also isolated from other organs of the chicken, such as the glandular stomach and caecum tonsil.



As a potential drug for inhibiting 2019-nCoV coronavirus, the 2019-nCoV_PLP sequence was found in the 2019-nCoV protein sequence and found to have 86% amino acid homology with SARS-CoV_PLP.

.Gilead Sciences (Gilead Sciences)

The drug remdesivir, developed by Gilead, is undergoing five clinical trials worldwide. Ascletis Pharma

Chinese pharmaceutical company Geli Biotechnology Co., Ltd. is conducting a trial to use two drugs that have been approved to treat HIV and hepatitis C to treat coronavirus infections.

. Moderna Therapeutics



Moderna set a record in the pharmaceutical industry with mRNA-1273 (a candidate vaccine), a candidate vaccine screened 42 days after the new coronavirus was successfully sequenced.

CanSino Biologics

The headquarters of Kangxinuo Bio-stock Co., Ltd. is located in Tianjin. The company is about to conduct clinical trials of a new coronavirus vaccine in China. Kang Xinuo's method is to extract a coronavirus gene code and entangle it with a harmless virus,

.Arcturus Therapeutics

Arcturus Therapeutics is developing a vaccine that relies on engineering RNA. The company plans to develop an RNA virus whose edited code produces a protein that resists viral infections and contains it in liquid nanoparticles.

.BioNTech

The German BioNTech company is developing an mRNA vaccine against a new coronavirus. .CureVac

Similar to Moderna, CureVac uses synthetic mRNA to stimulate the production of antibody proteins. Eli Lilly

Eli Lilly and AbCellera of Canada cooperate to develop antibody therapy against coronavirus infection.

GlaxoSmithKline

As one of the world's largest vaccine manufacturers, GSK is providing its technology to a Chinese biotechnology company that is developing a coronavirus vaccine. .Inovio Pharmaceuticals (Inovio Pharmaceuticals)

For the past 40 years, Inovio has been working to convert DNA into drugs, and the company believes that its technology

can quickly develop vaccines against new coronaviruses.

. Johnson & Johnson (Johnson & Johnson)

Newly discovered betacoronavirus, Wuhan 2019-2020

A previously unknown betacoronavirus was detected in patients during an outbreak of respiratory illnesses, including atypical pneumonia, that started mid-December 2019 in the city of Wuhan, the capital of Central China's Hubei Province.

The newly discovered coronavirus is similar to some of the betacoronaviruses detected in bats, but it is distinct from SARS-CoV and MERS-CoV.

The genome of the newly discovered CoV consists of a single, positive-stranded RNA that is approximately 30k nucleotides long. The overall genome organization of the newly discovered CoV is similar to that of other coronaviruses. The newly sequenced virus genome encodes the open reading frames (ORFs) common to all betacoronaviruses, including ORF1ab that encodes many enzymatic proteins, the spike-surface glycoprotein (S), the small envelope protein (E), the matrix protein (M), and the nucleocapsid protein (N), as well as several nonstructural proteins.

Virus name	Accession ID	Passage def	Collection date	Host	Originating lab
BetaCoV/Wuhan/IVDC-HB-01/2019	EPI_ISL_402119	Virus isolate	2019-12-30	Human	National Institute for Viral Disease Control and Prevention, China CDC
BetaCoV/Wuhan/IVDC-HB-04/2020	EPI_ISL_402120	Original	2020-01-01	Human	National Institute for Viral Disease Control and Prevention, China CDC
BetaCoV/Wuhan/IVDC-HB-05/2019	EPI_ISL_402121	Original	2019-12-30	Human	National Institute for Viral Disease Control and Prevention, China CDC
BetaCoV/Wuhan/IPBCAMS-WH-01/2019	EPI_ISL_402123	Original	2019-12-24	Human	Institute of Pathogen Biology, Chinese Academy of Medical Sciences & Peking University
BetaCoV/Wuhan/WIV04/2019	EPI_ISL_402124	Original	2019-12-30	Human	Wuhan Jinyintan Hospital

Johnson & Johnson, which has responded to outbreaks of Ebola and Zika in the past, is developing a multi-pronged therapy to deal with coronavirus.

.Pfizer Pharmaceuticals (Pfizer)

Vaccines and medicines

Renewable Pharmaceuticals

(Regeneron Pharmaceuticals)

Based on the technique of preparing human antibodies in genetically engineered mice. , Sanofi Pharmaceutical Company (Sanofi)

A

Sanofi has successfully developed yellow fever and diphtheria vaccines. The company is currently working with the Biomedical Advanced Research and Development Authority (BARDA) to find a solution to the coronavirus problem. The method used by Sanofi includes extracting some coronavirus DNA and mixing it with the genetic material of a harmless virus to form a chimera that can trigger the human immune system without causing the patient to become ill .

Takeda Pharmaceutical Company (Takeda)

Drugs

Japanese pharmaceutical giant Takeda Pharmaceuticals is researching a therapy that originates from a blood sample of a coronavirus infection. The company takes blood samples from coronavirus infection survivors, collects plasma, and then isolates protective antibodies. This method is not a new idea. At least since the Spanish influenza pandemic in 1918, blood transfusions have been used to deal with virus outbreaks. 16. Vir Biotechnology

Drugs

Vail Biotech is committed to the development of infectious disease drugs. The company has isolated antibodies from SARS survivors and is studying whether this antibody can be used to treat new coronavirus infections.

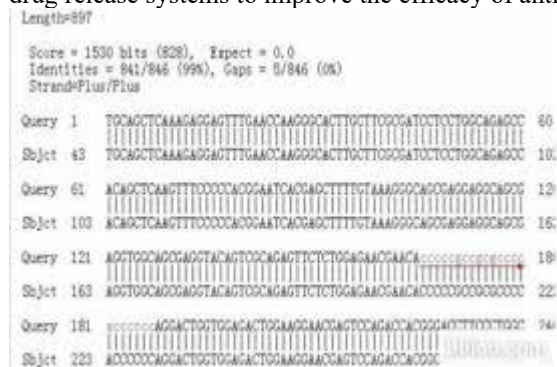
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Viral pneumonia is more common in winter and spring, and can be sporadic or outbreaks. The main clinical manifestations are fever, body aches, a small number of breathing difficulties, and lung infiltration. Viral pneumonia is related to the virulence of the virus, the route of infection, and the age and immune status of the host. The viruses that cause viral pneumonia are commonly known as influenza viruses, and the others are parainfluenza viruses, cytomegaloviruses, adenoviruses, rhinoviruses, and coronaviruses. The diagnosis depends on pathogenic examination, including virus isolation, serological examination, and detection of viral antigens and nucleic acids. The disease can be prevented and controlled, prevent indoor air circulation, avoid public places and places where people are crowded and closed, and wear masks when going out. Symptomatic treatment is the main clinical practice, and bed rest is required. The incidence and spread of new coronavirus pneumonia is very serious, and there are currently no special drugs and vaccines for prevention and treatment.

The new coronavirus pneumonia epidemic has 10 million patients and more than 500,000 deaths. It is estimated that the number of patients may be hundreds of millions, and the number of deaths will reach as many as one million. The epidemic has not ended, and it is still spreading. Especially in the United States, Brazil, India, Russia and other countries, there are not only middle-aged and elderly people, but also a large number of young patients. Invisible patients, asymptomatic infections, and new patients with new coronary pneumonia caused by cross-infection of various bacterial viruses cannot be ignored (including repeated epidemics). There are also about one million people in the world, which cannot be underestimated. Although the vaccine is important, it is time-consuming and urgent, and new special drugs cannot be successfully developed for the time being. Therefore, it is imperative to choose effective drugs, combined with other medical methods and technologies, to treat many patients, especially mild patients and general patients. In addition to strict prevention and control, effective drug treatment is the first choice. Some people think that the existing drugs are ineffective, and redisevir, hydroxychloroquine, etc., and antiviral drugs have no curative effect or

obvious effect. These views are not correct. Because of the pathological display and certification of a large number of clinical cases, there are not many people who have recovered and recovered, including many who have been severely ill. In addition to medical measures such as breathing and artificial lungs, the rational and comprehensive application of drugs has played an important role and must not be ignored. Of it. Under the current real conditions, the rational and scientific use of drugs is very important. Otherwise, the mortality rate will increase greatly, and there will be more patients. Therefore, the choice of medicines is scientific and reasonable, and it is particularly important to adapt to local conditions and human diseases. Clinicians have a heavy responsibility. Scientific, reasonable and effective use of drugs, combined with other treatment methods, is the wise and realistic choice, there is no other way to find.

Viral infectious diseases have a huge impact on human health. Anti-hepatitis virus drugs mainly include interferons (such as interferon, pegylated interferon, etc.), nucleosides (acids) (such as emtricitabine, la Mifudine, adefovir dipivoxil, entecavir, etc.), anti-influenza virus drugs (such as inosine monophosphate deoxygenase inhibitor ribavirin, interferon-inducing drug abidol hydrochloride, M2 protein ion channel inhibitor adamantine Alkylamine and rimantadine, neuraminidase inhibitors oseltamivir and zanamivir, etc.), anti-human immunodeficiency virus drugs (zidovudine, nevirapine, delavirdine, efavirenz, etc.) The research of antiviral drugs has become an important topic in the research and development of new drugs worldwide. Antiviral drugs are facing the challenge of drug resistant mutants. In order to overcome the shortcomings of antiviral drugs, effective new chemical entity drugs should be sought as much as possible. Existing drugs are structurally modified to prepare new derivatives; finding effective drug-loading drug release systems to improve the efficacy of antiviral drugs is the current research focus.



4 Anti-SARS-CoV drugs The new coronary virus SARS-CoV is the pathogen that causes SARS.

There are four broad categories of antiviral drugs. Inosine monophosphate deoxygenase inhibitors such as ribavirin. Interferon-inducing drugs such as Abidol Hydrochloride. Protein ion channel inhibitors, such as amantadine and amantadine, block the M protein to prevent viral unpacking and the release of their RNA to interfere with the entry of the virus into human cells, interrupt the early replication of the virus, and also inhibit viral assembly to play an anti-influenza virus . Neurolase inhibitors, etc.

(Relevant genomic sequence data are quoted from relevant databases, medical journals such as "Cell", attached drawings, etc.),

Through sequence alignment with other coronaviruses, the researchers first annotated the SARS-CoV-2 genome and found that its main components are the same as those of SARS-CoV and bat SL-CoVs, as shown in Figure 3. An amino acid homology comparison of its encoded proteins revealed that the amino acid homology of non-structural protein (nsp), envelope protein (E), and membrane protein (M) was higher, while that of spike protein S1 The variability is greater.

Coronavirus Sp protein is a key domain that binds to host cells. The S1 subunit contains the receptor binding domain (RBD). Through amino acid sequence alignment and protein tertiary structure prediction, it was found that SARS-CoV-2 RBD is very similar to SARS-CoV. It is speculated that the ACE2 receptor of SARS-CoV can also be combined with SARS-CoV-2, which mediates the invasion of SARS-CoV-2 into host cells.

And then published in "nature microbiology" and "Science" -ligand binding experiments verified this conjecture, confirming that ACE2 is the receptor of SARS-CoV-2 on the host cell.

Remdesivir is a nucleoside analog and is an RNA-dependent RNA polymerase inhibitor. It can synthesize anti-virus by inhibiting viral nucleic acid. The current clinical research on Ebola virus infection has reached stage II. Although there is currently no data demonstrating the anti-2019-nCoV activity of remdesivir, remdesivir has shown activity data in other coronaviruses. It shows good activity against MERS and SARS viruses in vitro and animal models. These viruses Similar to 2019-nCoV structure.

Compared with SARS virus and MERS virus, new coronaviruses are different new strains. According to the recent clinical data, the virus's spread seems to have increased, and the virus's toxicity and pathogenicity need to be based on more clinical data. Analysis and judgment.

Protease inhibitors that may be used in the treatment of new coronavirus infections include Disulfiram, a drug approved for the treatment of alcohol dependence, and Lopinavir/Ritonavir, which is Krezhi (Kaletra), Darunavir/Cobicistat (Prezcobix), etc.

For example, the approved immunomodulator Chloroquine and the approved Nitazoxanide for diarrhea have shown the ability to inhibit the new coronavirus in vitro. Chloroquine has been used as a cheap and safe drug for more than 70 years. It is a widely used antimalarial and autoimmune disease drug, and it has recently been reported as a potential broad-spectrum antiviral drug. 3CLPro is the main protease produced by the new coronavirus (2019-nCoV, SARS-CoV-2). Most functional proteins (non-structural proteins) of coronavirus are encoded by the ORF1ab gene

3.

Severe infectious diseases in history have changed human history countless times. The Black Death, the American Plague, and the plague in the Song, Jin, Yuan, and Ming and Qing Dynasties have all had important impacts in history.

The black death from 1347 to 1351. The plague is probably the most infectious disease that has the greatest impact on the development process of the world history. According to the literature, the disease has experienced many large-scale outbreaks in the history of the world, and the epidemic in Europe was the most serious from 1347 to 1351. Black Death is a natural epidemic infectious disease caused by *Yersinia pestis*. Because the patient's skin has dark spots, it is called "Black Death". The Black Death in the 14th century caused a sharp decline in the European population, with one third to one half of the population dying from this terrible disease. For the next 300 years, the Black Death continued to spread in Eurasia, causing great harm and the largest number of deaths.



Smallpox is a severe infectious disease caused by smallpox virus. At the beginning, smallpox was only a funny virus in domestic animals. Later, as the virus evolved, it spread to humans and became a terrible serious infectious disease. The earliest recorded human smallpox virus infection occurred in ancient Egypt. At that time, the smallpox virus had a huge lethality, causing at least 300 million deaths and hundreds of millions of people were cured

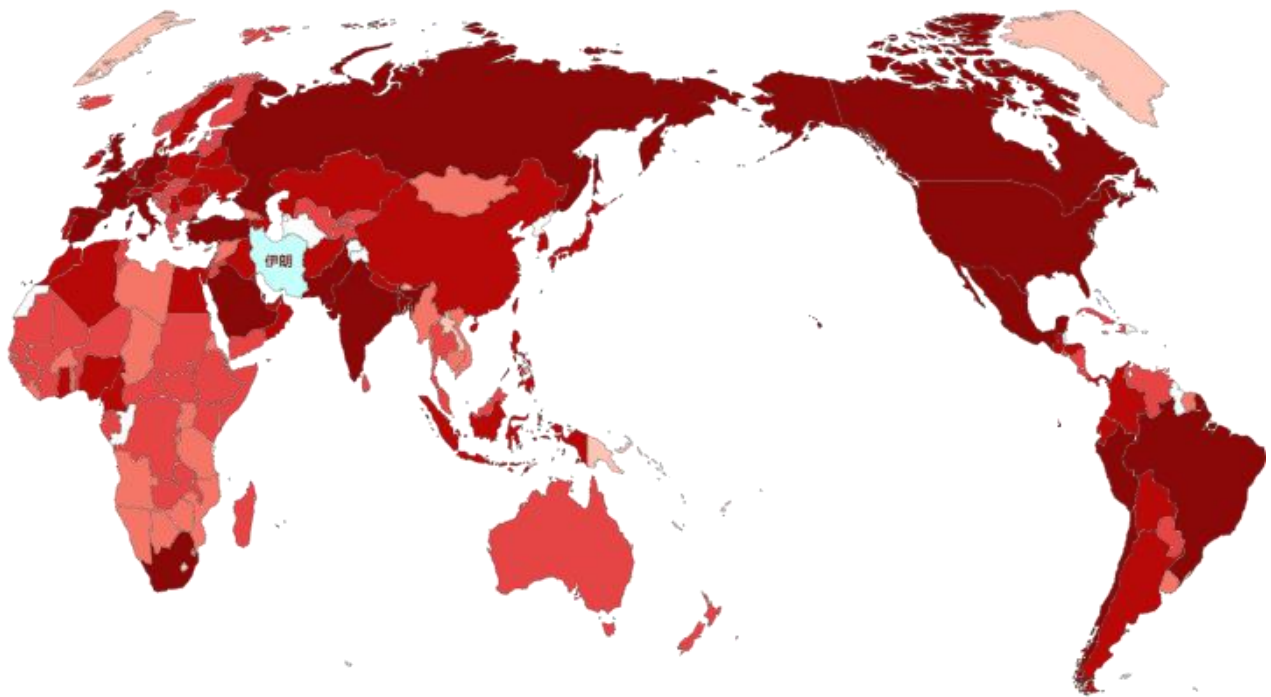
The Spanish flu originated in the spring of 1918, which happened to be the first world war. A large number of outbreaks occurred in the world in the autumn of 1918. By 1920, about 100 million people were infected and 50 million to 100 million people died.

(Graphic data sources Wiki, <<cell> and other network resources and related journals, cited from these websites, hereby explain)

The focus of prevention and control: 1. Farmer's market 2. Hospital 3. Animal farm 3, slaughterhouse 4. Seafood meat market 5. Catering, shopping malls, supermarkets, etc. 6. Stations. Hall 7. Stations, ferries, airplanes, cars, trains and other places with dense personnel 8. Animal experiment places 8. Large-scale gatherings and performing arts sports events 9. Schools, kindergartens, nursing homes 10. Factory workshops 11. Customs, entry and exit 12. Religion Place, church 13., Parks, beaches 14. Prisons 15 military camps 16. Canteens 17. Others and so on. Key groups: 1. Medical staff 2. Farmers' market merchants 3. Slaughter staff 4. Old and weak patients 5. Seafood meat processing 6. Customs, border inspection 7. Family history of infectious diseases, history of local infectious diseases 8. Others. Keep close contact with infectious patients. Bacteria and viruses can easily breed infected places and environments.

Pre-control and prevention: 1. People in the epidemic area take anti-virus, immune drugs 2 wear masks to avoid spreading infections at close range 3. mouth, nasal cavity, hands, pay attention to infections, airborne transmission, droplets, saliva, etc. 4. diet hygiene 5. animals Strictly eliminate meat and other food 6. Environment, water and other pollution-free 7. Air quality, ventilation and ventilation 8. Respiratory tract infectious diseases, pneumonia, influenza and other treatments and protection 9. Avoid the accumulation of personnel Prevention and control of the epidemic rebounded. 11. Asia, Europe, Latin America, Africa and other countries and regions adopt a variety of prevention and control models and methods. Even if the city is closed and the city is closed, it should be tailored to local conditions and people, scientific, rigorous, reasonable and appropriate. The key points are as above. Narrate. The combination of advanced technology and traditional ancient methods of prevention and treatment will allow most patients to recover and the mortality rate will be reduced. Otherwise, the epidemic will continue to expand, and the consequences can be

imagined. Ordinary people, susceptible people, follow the doctor's advice, scientific, reasonable, take appropriate amount of drugs antiviral immune drugs, etc., to achieve the purpose of prevention and control.



4.

New Crown Virus Pneumonia, New Crown Pneumonia (COVID-19)

“The 2019 coronavirus outbreak is a global pandemic caused by severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2). The epidemic was first discovered in Wuhan, Hubei Province, the People's Republic of China in December 2019, and then quickly spread to many countries around the world in early 2020, gradually becoming a global plague, described by many international organizations and media as the second since The most severe crisis facing the world since the World War. As of July 1, 2020, more than 220 countries and regions have reported more than 10 million confirmed cases and more than 500,000 patients have died.” (wikipedia website)

Globally, there have been 9 million cases of US deaths and 120,000 deaths. The deaths will exceed 500,000-700,000, and will seriously reach 1 million. Cases may exceed 10 million, because the epidemic is still developing, especially in the Americas, the United States, and Brazil. Countries such as Asia and India, Africa, and China's Beijing epidemic have rebounded. The epidemic has not completely ended. There will be some differences in virus development and variation in Asia, America, Europe, Africa and other strains, but the state is the standard model of the new coronavirus model, and there will be no fundamental difference. Of course, the virus has certain differences in areas, countries, environmental group individuals, and human body differences. In addition, culture, concepts, national conditions, epidemic prevention and control methods are different. The patients in Europe, America, Latin America and other countries are still high, and they deserve attention and research. Through a large number of case comparison studies and comparative analysis, the existence of differences in regions, races, groups and individuals, viral characteristics, infections, mortality differences and differences cannot be ruled out. Of course, the epidemic prevention model is very important. Certain differences in the effects of drug use in regions, races, groups, and individuals also exist and cannot be denied. The prevention and recurrence of the new coronavirus pneumonia and repeated epidemics are prominent problems. The epidemic has rapidly spread from Asia to Europe and Latin America and other regions and countries. It can be seen that the infection and long-term recurrence of the new coronavirus. 1. The spread of the virus is widespread and long-lasting 2. The occurrence of susceptible people 3. The prevention and control of the epidemic and the use of effective drugs, the key populations in the epidemic area should take antiviral immune respiratory infections and other drugs. Prevention and pre-control. 3. Viruses and human animals coexist. Viruses exist for a long time and will not go back easily. To prevent a new epidemic from happening, fall/winter 2020, winter/spring 2021, can not be careless. 4. Although there are no special drugs and vaccines for new coronavirus pneumonia, it is not an incurable disease. Most patients can be cured by using effective drugs and other suppression methods. 5. New Coronavirus pneumonia is mainly transmitted by mouth, nose, body, and air (close contact transmission, air gas enters the nasal cavity, oral cavity, etc.), especially including recessive transmission, asymptomatic infection, minor patients, various viruses Patients with mutual induction of bacteria have a long virus incubation period and cross infection with various bacterial viruses.

Under certain conditions, non-new coronavirus will also become new coronavirus pneumonia. Induced infection by bacterial viruses is also a condition for the initiation of a large number of cases. 6. A large number of experimental studies and pathological studies have shown that the new coronaviruses mainly come from animals, farmers' markets, wild animals, meat, seafood, poultry, etc., which are most likely to produce and spread such viruses. Of course, it is also possible to spread the infection through other methods and means. These need to be proved by further research in the future. However, the chain of transmission is very clear. Whether bats, pangolins, or other animals, all need to be proved by future research. 7. The new coronavirus pneumonia is highly contagious, with tens of millions of patients and nearly 500,000 or more deaths. This infectious disease is coronavirus is a serious respiratory tract, and has similarities and differences with Sars, Middle East respiratory infectious disease, Ebola virus and so on. Respiratory tract infectious diseases such as severe pneumonia, white lung disease, large-scale influenza, pneumonia, etc. are one of the most susceptible diseases of human beings, and there are many deaths every year. Therefore, to prevent pre-control, key regions, key populations, key industries, etc. should not be paralyzed. Winter and spring, old and weak patients, hospitals, large gatherings, customs, ferries, trains, planes and other confined spaces. Stations, farmers' markets, slaughtering and processing, catering, dirty and messy environments, water sources, vegetables and local epidemics, etc. are particularly 5.

Fangruida: ④ ♠ Top 10 drugs of the new coronavirus pneumonia (Davis) 2020v3. 0

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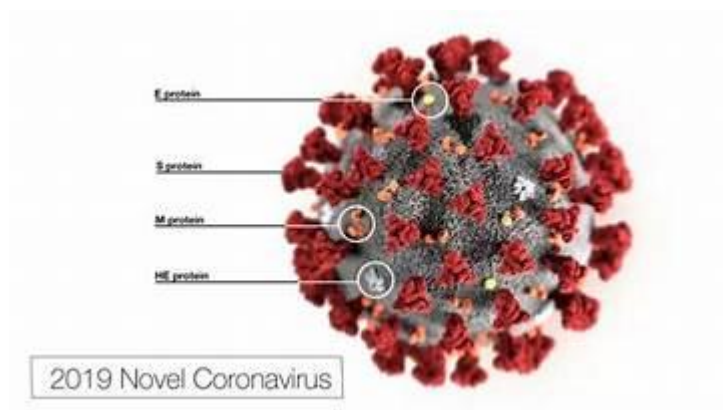
The new coronavirus pneumonia epidemic has 10 million patients and more than 500,000 deaths. It is estimated that the number of patients may be hundreds of millions, and the number of deaths will reach as many as one million. The epidemic has not ended, and it is still spreading. Especially in the United States, Brazil, India, Russia and other countries, there are not only middle-aged and elderly people, but also a large number of young patients. Invisible patients, asymptomatic infections, and new patients with new coronary pneumonia caused by cross-infection of various bacterial viruses cannot be ignored (including repeated epidemics). There are also about one million people in the world, which cannot be underestimated. Although the vaccine is important, it is time-consuming and urgent, and new special drugs cannot be successfully developed for the time being. Therefore, it is imperative to choose effective drugs, combined with other medical methods and technologies, to treat many patients, especially mild patients and general patients. In addition to strict prevention and control, effective drug treatment is the first choice. Some people think that the existing drugs are ineffective, such as ridcive, etc., and antiviral drugs have no curative effect or obvious effect. These views are not correct. Because of the pathological display and certification of a large number of clinical cases, there are not many people who have recovered and recovered, including many who have been severely ill. In addition to medical measures such as breathing and artificial lungs, the rational and comprehensive application of drugs has played an important role and must not be ignored. Of it. Under the current real conditions, the rational and scientific use of drugs is very important. Otherwise, the mortality rate will increase greatly, and there will be more patients. Therefore, the choice of medicines is scientific and reasonable, and it is particularly important to adapt to local conditions and human diseases. Clinicians have a heavy responsibility. Scientific, reasonable and effective use of drugs, combined with other treatment methods, is the wise and realistic choice, there is no other way to find.

*The cumulative number of confirmed cases of new coronary pneumonia in the world exceeded 9.08 million, reaching 9.87078 million cases and 471.396 deaths. The number of confirmed cases in the United States reached 2.36 million 593 cases, and there were 122.281 deaths. Statistics from worldometers show that there are 18 countries with more than 100,000 confirmed cases of new pneumonia worldwide, namely the United States, Brazil, Russia, Spain, United Kingdom, India, Italy, Peru, Germany, Iran, Turkey, France, Chile, Mexico, Saudi Arabia, Pakistan, Bangladesh, Canada. There are 7 countries with more than 10,000 deaths, namely the United States, Brazil, Spain, the United Kingdom, Italy, France and Mexico.

The World Health Organization WHO announced on the 21st local time that the number of newly confirmed cases in the world's new crown reached a single-day high, with more than 183,000 new cases in 24 hours and more than 4,700 deaths; there were 8.7 million diagnosed cases worldwide and more than 460,000 deaths. From various countries and regions, the number of new cases in the United States and Brazil accounted for half of the total number of new cases on the same day.

. New coronavirus pneumonia rages across the world and becomes a global plague. The number of patients and deaths are shocking. The time is long. The range is wide. The transmission coefficient and infection coefficient are difficult to effectively treat.

For a long time, it has been up to half a year, and there has not been a decline



. It has a major impact on global politics, economy, culture, education, sports, religion, etc., with losses of up to one trillion dollars. If mankind fails to respond effectively to suppression, major disasters will occur worldwide, and the consequences and consequences will be unimaginable. Although group immunization makes sense, it is too costly and deserves reflection and discussion. Therefore, it is very important to use effective drugs and vaccines to prevent and treat symptomatic diseases. Before new special drugs and vaccines are developed, it is especially necessary to respond to effective drugs and try to reduce morbidity and mortality.

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Many people believe that the new coronavirus pneumonia has no specific drugs and no vaccine, and it is an incurable disease. Many industry experts share this view. This kind of cognition and viewpoint must say that it is not wrong. However, there are not only high mortality data in clinical practice, but also a relatively high cure rate. In addition to the patient's condition, medical technology and other reasons, various effective drugs have played a major role, of course, including ventilators, artificial lungs, tube cutting and other rescue medical methods and technologies. According to clinical data, 85% to 93% of patients mainly rely on various medicines to cure, including critically ill late rescue. Most patients are mainly treated with various medicines, especially mild patients and ordinary infected patients. This fully proves the important role of drug control. For critically ill patients, the use of ventilator, artificial lung, intubation, etc. and comprehensive

treatment of medical treatment is about 15% -25%. Of course, the cases in different countries in the world are different. Difference or contrast. It is calculated based on the cure rate and average value of the total cases worldwide. Therefore, the significance and clinical effectiveness of various drug treatments cannot be underestimated. This is the most obvious truth, obvious. If you ignore or ignore the important role of drugs, where does the cure rate come from? Where do the large-scale recovery rates, such as sheltered hospitals, come from? What is a magic medicine? What is a new special medicine? Nowadays, we can only look for the wonderful things from the existing effective medicines. If you just wait for new special medicines and new vaccines to come out, the mortality rate will be as high as 56% -92.5%, which is even common knowledge for even three-year-olds. Time is life, time is money, time is price, time is victory or defeat. Even if the isolation such as the closure of the city is effective again, the final victory over the disease mainly requires the completion of various effective drugs. Only when the chemical substances enter the human body will it have a curative effect. (Intubation, ventilator, artificial lung, etc. undoubtedly play an irreplaceable role for drugs, and the two complement each other). Global shutdown for one minute, the economic loss is 300-800 billion US dollars; the United States will die one patient in 26-35 minutes (average count).

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***** Antivirus The drug of choice is Ribavirin (triazole ribonucleoside, Virazole). [Mechanism of action] is a broad-spectrum antiviral drug, which may inhibit phosphocreatinine dehydrogenase, prevent guanine nucleotides from being synthesized and prevent viral nucleic acids synthesis. It is effective against influenza viruses (type A and B), DNA and RNA viruses, but has no obvious effect on hepatitis B virus; it has preventive and therapeutic effects on viral pneumonia, hepatitis A, herpes, and measles, but clinical evaluations are mixed.

Amantadine hydrochloride Rimantadine Hydrochloride antiviral drugs

Polyinosinic Polycytidylic Acid

Interferons [Mechanism of Action] This product is a class of antiviral glycoproteins produced by vertebrate cells after other infections caused by viral infection. It is used for the treatment or adjuvant treatment of viral infections, such as viral keratitis, hepatitis, influenza, etc., and malignant tumors.

Amantadini Hydrochloridum

Aulenuridine Holpin, Brivudine, Audenyl Deoxyuridine, Aufuridine

Hydroxymethyl acyclovir ganciclovir

Redoxivir azithromycin chloroquine phosphate and so on.

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3 ribavirin

4 Amantadine hydrochloride

5 acyclovir

6 Deoxyacyclic guanosine dideoxycytidine 7 Polyinosinic acid

8 interferon

9 Amantadine hydrochloride

10 Briwood

11 Virus Spirit

12 Adenosine arabinoside 13 Zidovudine

14 dideoxythymidine

15 ganciclovir

16 iodine herpes net

17 telbivudine

18. Dexamethasone For the treatment of severe new coronary pneumonia, British doctors found the effect and effectiveness of dexamethasone. The common side effects of dexamethasone in the treatment of other diseases include anxiety, difficulty sleeping, weight gain, and fluid retention.

However, patients with new coronavirus only need to use a relatively small amount of medicine to follow the doctor's advice, so side effects should be limited.

■■ Immunopharmaceuticals First choice drug protein powder, thymus pentapeptide, thymus peptide, and injections to improve immunity, such as human albumin, lentinan, etc.

■■■■ Antipneumonia Drugs The first choice for viral pneumonia. The commonly used drugs used to be benflavirin, but now oseltamivir can also be taken by mouth. For bacterial infections, we usually use various penicillin drugs and cephalosporin drugs. For mycoplasmal pneumonia infections, usually azithromycin, or erythromycin, roxithromycin, etc.

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■■■■■ * Anti-bacteria Anti-bacterial drugs mainly include chemical synthesis: (1) quinones (2) sulfonamides. Antibiotics: (1) Penicillins (2) Chloramphenicol (3) Macrolides (4) Tetracyclines drug*****

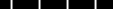
■■■■■ due to drug protease inhibits recombinant hepatitis B vaccine (various other recombinant vaccines)

Interleukin

Antagonist



A compound drug preferred drug bio-missile-virus target tracking bio-virus
missile-compound drug

 Pneumonia vaccine The drug of first choice Pneumonia vaccine is a very mature vaccine. The first population is patients with chronic underlying diseases. Especially suffering from congenital heart disease, congestive heart failure, cardiomyopathy, and chronic lung disease, especially chronic obstructive pulmonary disease, pulmonary edema asthma, chronic liver disease, cirrhosis and diabetic cochlear implant, cerebrospinal fluid leakage, etc. Diseases are all people who need pneumonia vaccine.

The second population is functional or anatomical asplenic.

Chain cell disease and other hemoglobin diseases, congenital or acquired asplenia, splenic dysfunction, splenectomy patients are also pneumonia vaccination groups.

The third type of population is those with impaired immune function.

If there is congenital or acquired immunodeficiency, or HIV infection or chronic renal failure nephrotic syndrome, systemic malignant tumor, bone marrow transplantation and the need for immunosuppressive drugs, long-term treatment with sebaceous hormones, and radiotherapy and chemotherapy Patients also need to be vaccinated against pneumonia.

In addition to the pneumonia vaccines for the three groups above, in fact, infants, young children, elderly people, and patients with alcoholism and smoking are also at high risk of pneumonia.

A total of 125,930 cases were diagnosed in France, and only 50 people were diagnosed on the

only active aircraft carrier.

According to real-time statistical data from Johns Hopkins University in the United States, the number of confirmed cases of new coronary pneumonia in France increased to 125,931, with a total of 13,215 deaths and 25,195 people recovering.

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73,758 cases diagnosed in the UK

According to the report of the British Ministry of Health and Social Security on the 10th, there were 5706 new cases of newly diagnosed coronary pneumonia in the UK, and a total of 73,758 cases were diagnosed. There were 980 new deaths and a total of 8958 deaths.

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A total of 47,029 cases were diagnosed in Turkey, intended to repair patients admitted to abandoned military hospitals

According to real-time statistical data from Johns Hopkins University in the United States, the number of confirmed cases of new pneumonia in Turkey increased to 47,029, with a total of 1,006 deaths and 2,423 people recovering.

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A total of 22,059 cases were diagnosed in Canada, the official prediction of the new crown epidemic or the death of 10,000 people

According to real-time statistics from Johns Hopkins University in the United States, the number of confirmed cases of new coronary pneumonia in Canada increased to 22,148, with a total of 570 deaths and 5,892 people recovering.

The new Crown Epidemiological Model released by the Canadian government recently shows that even according to the median value of the most ideal situation, 2.5% of the country's population, that is, about 934,000 people may be infected with the new crown virus, and about 11,000 people will die.

A total of 6134 cases were diagnosed in Japan.

According to the Japan Broadcasting Association, as of 11 p.m. local time, 589 new cases of new coronary pneumonia were diagnosed in Japan, with a total of 119 deaths and a total of 6134 confirmed diagnoses. Among them, there were 189 newly confirmed cases in Tokyo. Currently, 1,705 cases have been diagnosed in Tokyo.

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In addition to Italy, Spain, France, Germany, and the United Kingdom, 26667 cases were

diagnosed in Belgium; 24551 cases were diagnosed in Switzerland and Liechtenstein; 23249 cases were diagnosed in the Netherlands; 15472 cases were diagnosed in Portugal; 9685 cases were diagnosed in Sweden; 6314 cases were diagnosed in Norway;

10408 cases were diagnosed in Israel; 4346 cases were diagnosed in Malaysia; 4695 cases were diagnosed in Pakistan; 2473 cases were diagnosed in Thailand; 3651 cases were diagnosed in Saudi Arabia; 7598 cases were diagnosed in India; 2108 cases were diagnosed in Singapore; 1279 cases were diagnosed in Iraq; 993 cases were confirmed in Kuwait; 257 cases were confirmed in Vietnam.

6215 cases were diagnosed in Australia; 1283 cases were diagnosed in New Zealand.

There were 19638 cases in Brazil, 5897 cases in Peru and 171 cases in Venezuela.

(Source: Johns Hopkins University data, World Health Organization, bbc, Wikipedia, encyclopedia website, etc.)

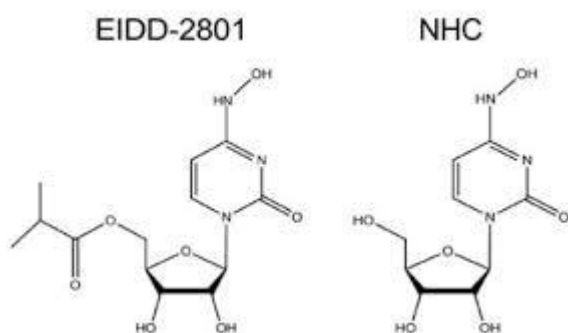
Compilation instructions

This book is a study of the new coronavirus pneumonia. It is of great significance to publish this book while the new coronary pneumonia is still spreading in the world. The New Crown Virus Gene Atlas, pathological etiology, New Crown Virus Pneumonia drug treatment and other major issues are all shown in the book.

The new coronavirus pneumonia is a particularly important public health event in the world. It has a large scale and great impact. It has 10 million illnesses and more than 500,000 deaths. It involves billions of people around the world. The epidemic is still spreading. It has special significance for the study of new coronavirus pneumonia. 1. Pathogenic transmission 2. Pathology 3, virology, immunity. 4. Epidemiology. 5. Medical 6. Drugs, vaccines. 7. Epidemic prevention, anti-epidemic. 8. Respiratory tract infections and pneumonia. 9. Gene map. 10. Molecular biology, viral

quantum chemistry. 11. Antiviral drug chemistry. 13. Response and epidemic prevention measures for large-scale epidemic infectious diseases, emergency management 14. Integration of medical resources, global forecast and early warning system for major epidemic infectious diseases 15. Emergency diagnosis and treatment of unexplained major infectious diseases, drug selection and use 16. Medical The system responds to sudden large-scale epidemic infectious disease treatment procedures and medical technology management procedures and specifications. 17. Sequencing and analysis of viruses. 18. Epidemic reports and international notifications. 19. Global network forecasting and early warning system for major epidemic infectious diseases. 20. Asian cases, European cases, Latin American cases, African cases, gene sequences, etc. 21. Invisible transmission, asymptomatic transmission. 22. Various bacterial viruses induce cross-infection with each other to germinate new coronaviruses 23. The damage of new coronary pneumonia to the body, complications and sequelae. twenty three,. The mutation and evolution of the new coronavirus, the long-term repetitive complexity of prevention and control. 24 others. A lot of space is needed to discuss and demonstrate these issues. Here, it is simple to delete the complex, mainly to discuss some major medical issues, such as the New Crown Virus Gene Atlas, pathological etiology, New Crown Virus pneumonia drug treatment and other major issues, which is the top priority, and the whole body is affected. This is the core and the key. Of course, other issues are also very important, this book mainly discusses and studies these key issues. In the future, it will be discussed in detail when publishing large-scale works. In a hurry, this book is mainly for the needs of the general public, netizens and readers from all over the world, including the majority of medical workers, medical and pharmaceutical colleagues, vaccine and pharmaceutical manufacturers, etc., and is published after the author has revised and finalized it. There are many shortcomings, I hope to correct it when reprinting. (The relevant chart materials in the book are quoted from related websites or network screenshots, Wiki, Who, Cell, Lancet, Encyclopedia, etc.)

Compilation June 26, 2020



-----Mainly refer to cited materials, literature, websites, gene banks, charts, books, encyclopedia network resources, etc.:

Wikipedia

British Encyclopedia

GenBank database (<https://www.ncbi.nlm.nih.gov/genbank/sars-cov-2-seqs/>) and GISAID database

(<https://www.gisaid.org/>)

"Cell" Cell

Lancet

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<https://novel-coronavirus.onlinelibrary.wiley.com/>

https://pubs.acs.org/page/vi/chemistry_coronavirus_research

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Genbank

Who

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<http://www.ebi.ac.uk/embl/>。

<http://srs.ebi.ac.uk/>。

: <http://www.ddbj.nig.ac.jp/>
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<https://www.springernature.com/gp/researchers/campaigns/coronavirus>
1. <https://www.cell.com/2019-nCoV?from=groupmessage&isappinstalled=0>
2. <https://www.elsevier.com/connect/coronavirus-information-center>
3. <https://www.thelancet.com/coronavirus>
4. Lancet Coronavirus Center: <http://www.thelancet.com/>
5. The latest coronavirus information: http://mp.weixin.qq.com/s?__biz
<https://www.biomedcentral.com/collections/>
And other information.

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La grande peste des humains dans le monde au 21^e siècle --- Nouvelle pneumonie à coronavirus (par Fangruida)
2020v1.3 compilé par Lisa

préface

10 millions de personnes tombent malades et plus de 500 000 personnes meurent ---- Le nombre de patients atteints d'une nouvelle pneumonie à coronavirus dépassera 100 millions dans le monde, et l'alarme de prévention et de contrôle retentira à nouveau

Selon un rapport de l'Université Johns Hopkins aux États-Unis, il y a eu plus de 10 millions de cas de nouvelles infections à coronavirus dans le monde et plus de 500 000 décès.

L'Organisation mondiale de la santé a déclaré que les nouveaux cas quotidiens avaient établi un nouveau record dimanche, atteignant 189 000. Le Brésil compte le plus de nouveaux cas, avec 47 000 nouveaux cas au cours des dernières 24 heures.

De nombreux experts de la santé affirment que le nombre réel de cas d'infection dans le monde peut dépasser de loin les chiffres publiés, car certains pays peuvent sous-déclarer les données pertinentes.

Plus de 10,11 millions, avec un décès cumulé de plus de 500 000. Selon les données de Reuters, 1 personne décède d'une maladie associée au nouveau coronavirus toutes les 18 secondes.

Au total, plus de 2,5 millions de personnes ont été diagnostiquées avec le virus aux États-Unis, le plus au monde. Le Brésil est le pays avec le deuxième plus grand nombre de nouveaux cas de coronavirus dans le monde, avec 1,13 million de personnes diagnostiquées avec une infection et 57 000 décès. Certains chercheurs affirment qu'en octobre de cette année, le nombre de morts du nouveau coronavirus en Amérique latine pourrait dépasser 380 000.

(Les éléments graphiques pertinents dans le livre sont cités à partir de sites Web connexes ou de captures d'écran de réseaux, Wiki, Who, Cell, Lancet, Encyclopedia, etc.)

Selon Reuters, sur la base des données moyennes du 1^{er} au 27 juin, plus de 4700 personnes sont décédées de maladies liées au nouveau coronavirus toutes les 24 heures, soit 196 personnes sont décédées toutes les heures ou toutes les 18 secondes. 1 personne est décédée.

L'explosion de la bombe nucléaire du nouveau virus Corona, si les pays ne prennent pas de mesures de prévention et de contrôle plus efficaces et décisives, le virus sera sans scrupules, de 10 millions à continuer de grimper à un nouveau niveau, atteindra un nouveau pic de 50 millions - 100 millions de personnes décédées Le nombre de personnes atteint un million ou plus, ce qui menace gravement la vie, la santé et la sécurité de 8 milliards de personnes dans le monde.

Les virus menacent gravement le milieu de vie des êtres humains, détruisant les êtres humains, détruisant l'économie et causant des conséquences plus effrayantes et terribles. Si l'épidémie continue de se propager et de s'étendre, les conséquences sont insupportables. Des pays comprenant des patients invisibles, une transmission invisible ou une résurgence de décès, la situation est plus dangereuse, elle affectera directement la survie de l'humanité. Les gouvernements et les peuples de tous les pays doivent attacher une grande importance et être vigilants, faute de quoi les conséquences seront inimaginables. Différents pays ont des conditions nationales différentes, des restrictions sur les ressources médicales, des différences dans l'environnement économique, les systèmes culturels et d'autres raisons. Ils doivent être traités différemment, sans contestation ni blâme. La priorité absolue est de prévenir et de contrôler et de traiter strictement, de minimiser la propagation et de maximiser le traitement et le sauvetage du patient. Si vous ne prenez pas de décision, indécis, les conséquences sont terribles et inimaginables. Le développement d'un vaccin prend du temps et ne doit pas être retardé, ce qui fait une grosse erreur. Les patients globaux comprennent les patients sévères et un nombre considérable de patients invisibles, les patients asymptomatiques, les estimations prudentes de nouveaux patients, au moins un million ou plus. Ce n'est pas alarmiste, en effet, les statistiques de l'OMS, Hopps University, etc. n'incluent pas cette partie des patients et des patients. Le nombre d'épidémies aux États-Unis, au Brésil, en Inde, en Russie et dans d'autres pays propage en partie les infections, et l'autre partie comprend les patients invisibles, les infections asymptomatiques et les nouveaux patients avec conversion virale. Le nombre est difficile à compter avec précision. La situation épidémique s'est étendue et s'est aggravée en raison de divers facteurs. Bien sûr, les mesures de prévention et de contrôle, les mesures médicales, etc., y compris la reprise du travail, l'école et le marché sont trop tôt et les mesures de prévention et de contrôle font défaut. La nouvelle montre que le nombre de jeunes patients augmente. Cela montre que la propagation nocive des virus ne peut pas être sous-estimée. Le développement continu de la peste mondiale nécessite des mesures efficaces pour y faire face.

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Avec l'épidémie mondiale de l'épidémie de New Crown, des membres de la communauté scientifique britannique et d'autres ont successivement mis en avant l'idée d'une "immunité de groupe". La soi-disant "immunité de groupe" se réfère à l'infection à grande échelle d'une maladie infectieuse par un groupe biologique. Après la récupération, le corps générera automatiquement une immunité contre la maladie infectieuse, garantissant ainsi que cette maladie infectieuse ne sera pas déclenchée à l'avenir.

«Migrants COVID-19» crise dans une crise »

Des dizaines de millions de travailleurs migrants, contraints de rentrer chez eux après avoir perdu leur emploi en raison de la fermeture de COVID-19, sont confrontés au chômage et à la pauvreté dans leur pays d'origine, averti l'OIT. Des millions de travailleurs migrants pourraient être obligés de rentrer chez eux, là où les marchés du travail sont désormais affaiblis par la pression supplémentaire du taux de chômage élevé et de graves perturbations commerciales. De plus, leurs familles souffriront de la perte des envois de fonds qui leur sont normalement envoyés. »Screenshot Capture d'écran du réseau un.org))

La génétique des populations fait référence à la composition génétique d'une population, c'est-à-dire la fréquence des gènes et des génotypes dans cette population. Par exemple, la population de races lignées pures est homogène et les individus sont homozygotes; tandis que la population des variétés des groupes de pollinisation ouverte est hétérogène et que les individus sont hétérozygotes. L'étude de la composition génétique des populations dans la sélection végétale peut aider à la prise de décision dans les programmes de sélection.

En termes de culture, la composition individuelle des groupes de cultures plantées sur le même champ est antagonisée. Ce groupe individuel peut être composé de cultures mixtes, de cultures intercalaires ou d'espèces uniques de plusieurs cultures. L'étude de l'espace occupé par chaque individu dans le groupe individuel et la composition de son phénotype et la coordination dynamique entre les individus aideront à guider la culture des cultures à haut rendement. Face à l'immunisation de groupe, si le virus subit une mutation génique et que la séquence et la structure de la protéine changent, de sorte que les personnes initialement immunisées ne peuvent pas reconnaître ces virus modifiés, alors l'immunisation de groupe sera inefficace. Il existe deux types de virus: les virus à ADN et les virus à ARN. Les virus à ADN sont plus stables et moins sujets à la mutation, tandis que les virus à ARN sont instables et sujets à la mutation. Ce nouveau coronavirus est un virus à ARN, qui présente un risque potentiel élevé de mutation et devrait être très préoccupé.

Les données sur la séquence du génome viral du nouveau coronavirus sont très importantes pour le traitement et la prévention du nouveau coronavirus, et le développement de vaccins et de médicaments est très important. Souches de virus,

Les données de séquence du génome viral, l'étiologie, la pathologie, la biologie moléculaire, la chimie quantique, la pharmacologie, etc. sont toutes des données scientifiques importantes.

Le Centre chinois de contrôle et de prévention des maladies a officiellement publié la nouvelle situation épidémique du

coronavirus et les données de séquence du génome viral en juin 2020 à Pékin par le biais du "Nouveau système national de services de ressources scientifiques et technologiques du coronavirus". Comprend principalement les données de séquence génomique des cas confirmés à Pékin (NMDC60013902-01, NMDC60013903-02) et des données de séquence génomique d'échantillons environnementaux (NMDC60013903-03), ces trois échantillons ont été collectés le 11 juin 2020, lors d'une récente épidémie de virus à Beijing. Dans le même temps, le Centre chinois de contrôle et de prévention des maladies a également soumis la nouvelle situation épidémique de la couronne et les données de séquence du génome viral à l'Organisation mondiale de la santé et à la Global Influenza Data Initiative (GISAID) pour partager les données à l'échelle mondiale.

(Capture d'écran du réseau

Recherche scientifique, expression factuelle, expression des données, expression empirique. Sinon, cela violera la vérité scientifique. Les matériaux du réseau, les images du réseau, les captures d'écran du réseau sont tous des souvenirs et des enregistrements historiques.)

La bibliothèque de ressources du nouveau coronavirus 2019 contient des métadonnées sur les souches de virus du nouveau coronavirus 2019 (2019-nCoV) publiées à partir de la base de données GenBank et de la base de données GISAID du NCBI. .

<http://virological.org/>) a publié la séquence du génome de ce virus. Peu après, le CDC chinois a également publié la séquence du génome du SARS-CoV-2 (et les données épidémiologiques connexes) sur la base de données GISAID accessible au public (<https://www.gisaid.org/>). Il est important de noter que la publication des données sur la séquence génomique du SRAS-CoV-2 a facilité le développement rapide de tests de diagnostic et de clones infectieux. La course à la mise au point de vaccins et de médicaments antiviraux efficaces est en cours et les essais cliniques des médicaments antiviraux progressent progressivement. (Les données pertinentes sur la séquence génomique sont citées dans des bases de données pertinentes, des revues médicales telles que "Cell", des dessins joints, etc.), Données de séquence génomique

Dans les années 1930, le virus de la bronchite infectieuse aviaire (IBV) a été trouvé dans les voies respiratoires des poulets. Par la suite, des virus de structure similaire à IBV ont également été trouvés dans le liquide de lavage nasal humain et d'autres animaux. Parce que la surface du virus a des protéines fibrillaires en forme de couronne, il est appelé coronavirus.